

SUPERCritical CPD MEMS DRYER FOR DIE & 1" WAFERS

AUTOSAMDRI[®]-815, SERIES B

tousimis



- The Supercritical **Autosamdri[®]-815, Series B** System was developed by Dr. A. J. Tousimis and our team of long-standing associates within the tousimis[®] SAMDRI design group.
- Smooth operation and precise control are the Supercritical **Autosamdri[®]-815's** trademark; allowing anti-stiction processing of 10mm square die as well as 1" wafers.

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FEATURES

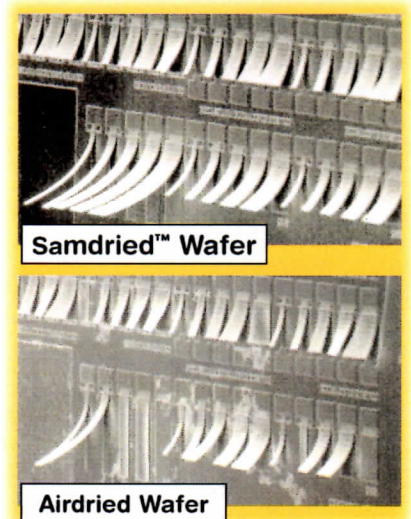
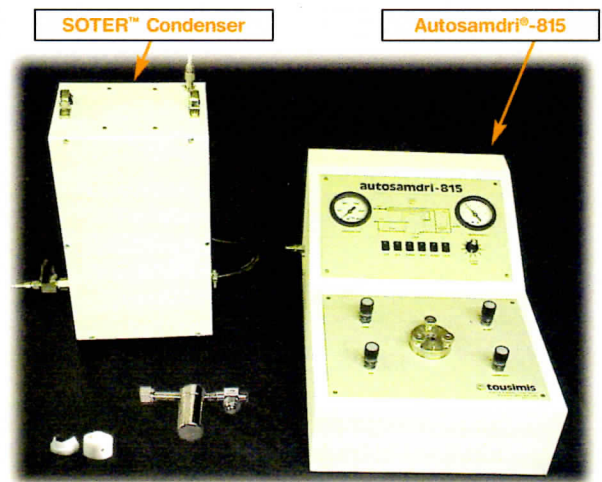
- Microprocessor* controller allows for complete automatic processing.
- Electromagnetic valves and seals inert to LCO₂, alcohols and acetone.
- Internal surfaces inert to CO₂, ultrapure alcohols and acetone.
- Repeatable operating parameters insuring reproducibility of results.
- Process up to 5 x 10mm square die or 5 x 1" diameter wafers with every run! (tousimis® HF compatible Wafer/Die Holders* are used to transport and process your MEMS devices minimizing handling).
- Integrated temperature controls.*
- Internal rupture disc built in for safety.
- LED's instantly indicate process mode at a glance.*
- Clean room static-free compatible design.
- Complete advanced solid state reliable electronics.
- Efficient adiabatic cooling system*; cool Process Chamber from room temperature to operational temperature in less than 90 seconds!
- All electronic components meet CE, UL and/or U.S. Military Specifications.
- Static pressure control module pre-set for automatic safe pressure stability.
- 0.4µm internal filtration system delivers clean filtered LCO₂ to process chamber. *
- Under-lit chamber with viewing window facilitates operator chamber status viewing.
- Vernier Handle Meter Valves allow for repeatable precision flow control.
- SOTER™ Condenser* connects to Autosamdri®-815, Series B (SOTER™ Condenser quietly separates waste alcohol from exhaust CO₂).

SPECIFICATIONS

- Cabinet: 14.0" (35.6cm) Width x 10.25" (26.0cm) Height x 21.5" (54.6cm) Length
- System Set-Up Area Required: 36" (92cm) Width x 30" (76cm) Depth
- Chamber size: 1.25" I.D. x 1.25" Depth, Chamber volume: 25 ml
- Temperature gauge range: -30°C to 60°C
- Pressure gauge range: 0 to 2,000 psi
- Purge Timer Range: 0 - 45 minutes
- 120V/50-60Hz (Other voltage units also available. Please Inquire)

STANDARD ACCESSORIES

- LCO₂ High Pressure braided stainless steel inert Teflon® lined hose. 10ft (~3m) long for clean room operation (at a nominal charge, other lengths available upon request).
- LCO₂ External Combination Filter Assembly (#8784) for water / oil / particulates (down to 0.5µm) conveniently pre-installed onto the chamber supply LCO₂ high-pressure hose.
- SOTER™ Condenser* connects to Autosamdri®-815, Series B. Captures all alcohol and deadens exhaust noise.
- Static free Exhaust Tubing for all exhaust outlets.
- Internal stainless and nickel scintered filtration systems incorporated to protect lines, wafers, and valves down to 0.4µm.
- 20 SCFH Flow Meter enables periodic BLEED rate measurement for exact pressure decompression.
- Spare Chamber O-ring (2), Chamber Lamps (2), and 5A Slo-Blow Fuses (2).
- 10mm Square HF Compatible Chip Holder* included. This holder can load up to 5 die per process run.
- Installation Tool Kit included.
- Free lifetime technical support consultation by our scientific staff.
- 2 year warranty on all parts and labor.



* Most Autosamdri® feature U.S. patents (# 6,493,964, #6,678,968) or patents pending.

Note: Actual delivered model or accessories may vary slightly, as advancements are being constantly applied.